	L #	Hits	Search Text	DBs	Time Stamp
1	L1	149121	(intermit\$5 pulse pulsed pulsing) near3 (plasma voltage current)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/03/17 16:07
2	L2	4285		USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/03/17 16:03
3	L3	1346	(118/723E-723IR).CCLS.	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/03/17 16:04
4	L4	275	1 and (2 or 3)	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/03/17
5	L5	184222	boron boride "BCl.sub.3" "BF.sub.3" "BX.sub.3"	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/03/17 16:06

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	:	L	#	Hits	Search Text	DBs	Time Stamp
6	L	6		65		USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/03/17 16:06
7	L	7			pulse near 3 duration period pause		2002/03/17 16:08
8	L	8	_ =	54	6 and 7	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/03/17 16:08
9	L	9		11	6 not 8	USPAT; US-PGP UB; EPO; JPO; DERWEN T; IBM_TD B	2002/03/17 16:08
71	10			110301	Near3	<u> </u>	
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D)		Document	Issue Date	Title	Current OR	Inventor
5	1 -	US 200100412 30 A1 37/ Bondy 1-	20011115 -> 1/23/97	producing wear-resi stant boride	427/569	Hunger, Hans-Jorg et al.
	2	US 6342277 B1	20020129	Sequentia 1 chemical vapor depositio n	427/562	Sherman, Arthur
# 1	3	US 6335536 B1	20020101	Method and apparatus for low voltage plasma doping using dual pulses	250/492.3	Goeckner, Matthew J. et al.
	4	US 6306225 B1	20011023	Process for producing wear-resi stant boride layers on metallic material surfaces	148/241	Hunger, Hans-Jorg et al.
	5	US 6281147 B1	20010828	Plasma CVD method	438/788	Yamazaki, Shunpei et al.

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		Document ID	Issue Date	Title	Current OR	Inventor
	6	US 6200651 B1	20010313	Method of chemical vapor depositio n in a vacuum plasma processor responsive to a pulsed microwave source	427/571	Roche, Gregory A. et al.
#2	7	US 6182604 B1	20010206 NJZG	Hollow cathode for plasma doping system	118/723E	Goeckner, Matthew J. et al.
	8	US 6162709 A	20001219	Use-of an asymmetri c waveform to control ion bombardme nt during substrate processin g	438/513	Raoux, Sebastien et al.
Abs-	Population of the second of th	Curpusy DC Dz cush, took US 6139921 A	Helia 20001031 11/23/98	Method for depositin g fine-grai ned alumina coatings on cutting tools	427/576	Taschner, Christine et al.
	10	US 6136388 A	20001024	Substrate processin g chamber with tunable impedance	427/569	Raoux, Sebastien et al.

		Document ID	Issue Date	Title	Current OR	Inventor	J
#4		powder co pulsureplu US 6124564 A pow date	nd som	Hardfacin g compositi ons and hardfacin g coatings formed by pulsed plasma-tr ansferred arc	219/121.4 7	Sue, J. Albert et al.	
50-50 #5	12	plasma CN passodnan miliowane US 6110542 A mil 3 Sporty mix mon 1-30ms	20000829 of Fd 923/51	Method for forming a film	427/577	Miyanaga, Akiharu et al. BP	-11
	13	US 6101971 A	20000815	Ion implantat ion control using charge		Denholm, A. Stuart et al.	z We
	14	US 6098568 A	20000808	Mixed frequency CVD apparatus	118/723E	Raoux, Sebastien et al.	
(Ab) Control 10m/rs	i	(goods	Helicon wave plasma processin g apparatus		Kadomura, Shingo	
	The M his waste	est Sig. feets	priorpul = BC/3 flow	signed of les copsec of four	Le width 25% Of Uz=40; N	2 = 10	

	Document	Issue	Title	Current OR	Inventor
	ID	Date		Current OR	Inventor
16	US 6055928 A	20000502	Plasma immersion ion processor for fabricati ng semicondu ctor integrate d circuits	118/723E	Murzin, Ivan Herman et al.
17	US 6041734 A	20000328	Use of an asymmetri c waveform to control ion bombardment during substrate processin g	118/723E	Raoux, Sebastien et al.
18	US 6015762 A	20000118	Plasma CVD method	438/788	Yamazaki, Shunpei et al.
19	US 5988103 A	19991123	Apparatus for plasma source ion implantat ion and deposition for cylindric al surfaces	118/723E	Fethersto n, Robert P. et al.

		Document	Issue	mi +1 -	Current OR	Tourne
		ID	Date	Title	Current OR	Inventor
app of the	20	us 5983828 A	19991116,	processin g of a semicondu ctor substrate	118/723I	Savas, Stephen E.
goodfor #8	Boran 21 D) Adioc 200	us 5981078 A mp. J PCVD in 2001) pulse	9000 19991109 201 publis 2/27 De mar publication Unite 12/186	Composite body and Ca process for its productio n -20mse	Cavbi-n Ustvolo 428/457	FRIDE VI FECIPO Tabersky, Ralf et al.
	22	IIS		Pulsed high energy synthesis of fine metal powders	219/121.5 9	Witherspo on, F. Douglas et al.
Apoly #9	23	Dula Llean relations of the Symphonic of	19990727 9/2/97	treatment method and plasma treatment	216/67	Kubota, Masafumi et al.
	24	US 5900289 A		Method of producing a colorating	: · · · · · · · · · · · · · · · · · · ·	Hartmann, Rolf et al.
	25	US 5897713 A	19990427	Plasma generatin g apparatus	118/723I	Tomioka, Kazuhiro et al.

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	(Ab)	pulsest plus predetand a	up, her	Apparatus and method for		
off \$10	26	US 5883016 A	19990316 4/96-2 CIP ON 51508, 127	pl <u>asm</u> a i <u>mmer</u> sion	438/798	Chan, Chung et al.
		F13.6-900d	-DC.	ion implantat ion Amorphous		
114		But physical US 5837331 A ento fighter.	vup. Lego. app.	multi-lay ered structure and method of making the same	427/569	Menu, Eric P. et al.
•\ .	28	US 5693376 A	19971202	Method for plasma source ion implantat ion and depositio n for cylindric al surfaces	427/523	Fethersto n, Robert P. et al.

		Document ID	Issue Date	Title	Current OR	Inventor
#12	29 Fo D)A	US 15654043 A Della Mordi Sufund Mordi Buland durch	19970805 for BF3 ilator circust to	Pulsed plate plasma implantat ion system and method	427/527	Shao, Jiqun et al.
	30	IIC	19970520	Method and apparatus for a large volume	The Table St. St. and St. Company of the St.	Eastlund, Bernard J.
#5=#13	#12 111 31	US 5626922 A	19970506	Plasma processin g method		Miyanaga, Akiharu et al.

		Document ID	Issue Date	Title	Current OR	Inventor
科	32	us 5607264 A	19970304	Tool with diamond cutting edge having vapor deposited metal oxide layer and a method of making and using such tool	407/118	Konig, Udo et al.
ppart HG	(Ab) 33 Bh	blosma achul dus in Budug US 5587233 A Senorl duch	ond. o/pulsed ron-lists 19961224 . 20µs-20ms	Direct volts, Composite body and its use	428/325	Konig, Udo-et al.
*16	34	US 5587207 A	19961224	Arc assisted CVD coating and sintering method	427/571	Gorokhovs ky, Vladimir I.
	35	US 5558718 A	19960924	Pulsed source ion implantat ion apparatus and method		Leung, Ka-Ngo

		Document ID	Issue Date	Title	Current OR	Inventor	<i>!/</i>
#17	36	US 5547716 A	19960820	Laser absorptio n wave depositio n process and apparatus		Thaler, Stephen L.	
	(A)) plason o	educata	103 Pulsed	duant val.		,
出8	37	US 5516588 A	19960514	Composite body, its use and a process for its productio	428/469	van den Berg, Hendrikus et al.	the the (M)
		but see cla	또 또 또 =			= = = /2 = =	
#P		US 5503913 A	19960402	Tool with wear-resi stant cutting edge made of cubic boron nitride or polycryst alline cubic boron nitride, a method of manufactu ring the tool and its use	428/216	Konig, Udo et al.	
	39	US 5397428 A	19950314	Nucleatio n enhanceme nt for chemical vapor depositio n of diamond	117/86	Stoner, Brian R. et al.	

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4W	40 (D)	US 5354381 A property PI BF2	F3 plosm 19941011 3 pulsa-ull	Plasma immersion ion implantat ion '(PI.sup.3) apparatus	118/723E	Sheng, Terry T.	
#21		pulou H US 5304407 A	•	Method	:	Hayashi, Shigenori et al.	
#W	4.2	US \$289010 A) 19940222	Ion purificat ion for plasma ion implantat ion	250/492.2 1	Shohet, Juda L.	
AV)	43	US 5192578 A	19930309	Method of producing coating using negative DC pulses with specified duty factor	427/576	Ramm, Jurgen et al.	
# 24	44	US 5173328 A		Plasma CVD process for coating a basic metallic body with a non-condu ctive coating material	•	Reiter, Norbert et al.	the Foris

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	Document ID	Issue Date	Title	Current OR	Inventor
45	US 5130170 A	19920714	Microwave PCVD method for continuou sly forming a large area functiona l deposited film using a curved moving substrate web with microwave energy with a directivity in one direction perpendic ular to the direction of microwave propagati on	:	Kanai, Masahiro et al.
4	US 5098483 A	19920324	Methods of treating spherical surfaces	423/497	Little, Roger G. et al.
47 (p)	US 5078848 A Justical of Uncol Justical of Uncol Justical of Uncol	19920107 BN	Procedure and apparatus for the coating of materials by means of a pulsating plasma beam		Anttila, Asko et al.

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	48	US 4937205 A	19900626	Plasma doping process and apparatus therefor	438/513	Nakayama, Ichiro et al.
	49	US 4937094 A `	19900626	Method of creating a high flux of activated species for reaction with a remotely located substrate	427/574	Doehler, Joachim et al.
	50	US 4883686 A	19891128	Method for the high rate plasma depositio n of high quality material	427/562	Doehler, Joachim et al.
	51	US 4764394 A	19880816	Method and apparatus for plasma source ion implantat ion	427/525	Conrad, John R.
	52	US 4762756 A	19880809	Thermoche mical surface treatment s of materials in a reactive gas plasma	428/698	Bergmann, Erich et al.

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A To	53	US 4645895 A	19870224	Method and apparatus for surface-t reating workpiece s	219/76.13	Boxman, Raymond L. et al.
	54	US 4568563 A	10960204	Optical fibre manufactu re		Jackson, Thomas M. et al.